

OPEN FLOW TEST DATA

DATE August 17, 1956

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit # 60	
Location 800'N, 1650'E, Sec. 19-28-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing Diameter 5 1/2 @ 5845 7 5/8	Set At: Feet 3555	Tubing: Diameter 2	Set At: Feet 5774
Pay Zone: From 5110	To 5716	Total Depth: 4767	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 14.1605			
Shut-In Pressure, Casing, PSIG 1055	+ 12 = PSIA 1067	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1047	+ 12 = PSIA 1059	
Flowing Pressure: P PSIG 369	+ 12 = PSIA 381		Working Pressure: P _w PSIG 832	+ 12 = PSIA 844	
Temperature: T 71	F	n = 0.750	F _{pv} (From Tables) 1.038	Gravity 675	

CHOKE VOLUME = Q = C x P_i x F_c x F_g x F_{pv}

$$Q = 14.1605 \times 381 \times .9896 \times .9427 \times 1.038 = 5224 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{1,138,489}{426,153} \right)^n = 2.682^{.75} \times 5224 = 2.097 \times 5224$$

$$A_{of} = 10,955 \text{ MCF/D}$$

TESTED BY Tom Grant

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OIL CONSERVATION COMMISSION

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